

## CLAIMS

1. (Currently Amended) A printing system comprising:
  - a printing device for printing on a plurality of printing media in accordance with a plurality of adjustable settings;
  - a memory to store multiple configurations of the adjustable settings, each configuration of the adjustable settings corresponding to a different printing medium;
  - an interface; and
  - a controller for controlling the adjustable settings of the printing device responsive to inputs from the interface, the controller having an on line mode wherein the printing device prints while the adjustable settings are unchanging, and an off line mode for characterizing one or more of the printing media by determining one or more of the corresponding configurations of the adjustable settings;

wherein the controller is adapted to, while in the off line mode,

  - identify a plurality of first calibration values for a first setting of the adjustable settings through derivation of at least one trigger value, where the derivation includes incrementing the trigger value by at least a preset or user-defined incremental value,
  - iteratively set the first setting of the printing device to each of the first calibration values, where the printing device, after each iteration, prints a corresponding sample image according to the first setting, and
  - receive a first feedback input that identifies one of the first calibration values as preferred for the first setting.

2. (Currently Amended) The printing system of claim 1, wherein the controller is further adapted to:

  - identify a plurality of second calibration values for a second setting of the adjustable settings after receiving the first feedback input,
  - iteratively set the second setting of the printing device to each of the second calibration values, where the printing device, after each iteration, prints a corresponding sample image according to the second setting,

receive a second feedback input that identifies one of the second calibration values as preferred for the second setting.

3. (Original) The printing system of claim 1, wherein the controller is further adapted to control the printing device to also print an indicium on each sample corresponding to the calibration value of the first setting being used, and interpret the feedback input based on the indicium.

4. (Original) The printing system of claim 1, wherein the first setting is a temperature of a fuser.

5. (Original) The printing system of claim 1, wherein the first setting is a print speed.

6. (Original) The printing system of claim 1, wherein the first setting is a set of color curves.

7. (Original) The printing system of claim 1, wherein the first setting is a set of gamma curves.

8. (Original) The printing system of claim 1, wherein the first setting is a set of white point data.

9. (Previously presented) The printing system of claim 2, wherein the second calibration values are preset for the second setting.

10. (Original) The printing system of claim 1, wherein the controller is further adapted to:  
receive at least one trigger value regarding the first setting,  
wherein the first calibration values are derived from the trigger value.

11. (Original) The printing system of claim 10, wherein the trigger value corresponds to an initial value.

12. (Original) The printing system of claim 11, wherein the first calibration values are derived from an increment and the initial value.

13. (Original) The printing system of claim 11, wherein the increment has a preset value.

14. (Canceled)

15. (Previously presented) The printing system of claim 1, wherein the controller is further adapted to:

store in the memory a preferred one of the first calibration values.

16. (Previously presented) The printing system of claim 1, wherein the controller is further adapted to:

store in the memory an identifier for the printing medium that the sample images are printed on.

17. (Original) The printing system of claim 16, further comprising: a bar code scanner to read the identifier.

18. (Previously presented) An article comprising: a storage medium, the storage medium having instructions stored thereon, wherein when the instructions are executed by at least one device, they result in:

storing multiple sets of printer settings in a memory, each set characterizing a different printing medium, where a printing device prints on the printing media according to the corresponding sets of the printer settings;

placing the printing device in an off line media characterization mode for characterizing at least another printing medium;

identifying a plurality of first calibration values for the first setting of the printing device;  
iteratively setting the first setting of the printing device according to each of the first calibration values, where the printing device, after each iteration, prints a corresponding sample image according to the first setting; and  
receiving a first feedback input that identifies one of the first calibration values as preferred for the first setting;  
identifying a plurality of second calibration values for a second setting of the printing device after receiving the first feedback input;  
iteratively setting the second setting of the printing device according to each of the second calibration values, where the printing device, after each iteration, prints a corresponding sample image according to the second setting;  
receiving a second feedback input that identifies one of the second calibration values as preferred for the second setting.

19. (Canceled)

20. (Original) The article of claim 18, wherein  
all the sample images are derived from a single electronic image file.

21. (Original) The article of claim 18, wherein the instructions further result in:  
printing, along with each sample image, an indicium corresponding to the first calibration value of the first setting in use while printing the sample image.

22. (Canceled)

23. (Original) The article of claim 18, wherein  
the first setting is a temperature of a fuser.

24. (Original) The article of claim 18, wherein  
the first setting is a print speed.

25. (Original) The article of claim 18, wherein the first setting is a set of color curves.

26. (Original) The article of claim 18, wherein the first setting is a set of gamma curves.

27. (Original) The article of claim 18, wherein the first setting is a set of white point data.

28. (Original) The article of claim 18, wherein the first calibration values are preset for the first setting.

29. (Currently Amended) The article of claim 18, wherein the instructions further result in:

receiving at least one trigger value regarding the first setting,

wherein the first calibration values are derived from the trigger value, where the derivation includes incrementing the trigger value by at least a preset or user-defined increment value.

30. (Cancelled)

31. (Cancelled)

32. (Currently Amended) The article of claim 29 34, wherein the first calibration values are derived from an increment and the initial value.

33. (Currently Amended) The article of claim 29 34, wherein the increment has a preset value.

34. (Currently Amended) The article of claim 29 34, wherein the instructions further result in:

setting a value for the increment.

35. (Original) The article of claim 18, wherein the instructions further result in: store a preferred one of the first calibration values in a memory.

36. (Original) The article of claim 35, wherein the instructions further result in: storing in the memory an identifier for the printing medium that the sample images are printed on.

37. (Previously presented) A method comprising:

placing a printing device in an off line media characterization mode for characterizing a first printing medium;

identifying a plurality of first calibration values for the a first setting of the printing device;

iteratively setting the first setting of the printing device according to each of the first calibration values, where the printing device, after each iteration, prints a corresponding sample image according to the first setting; and

receiving a first feedback input that identifies one of the first calibration values as preferred for the first setting,

identifying a plurality of second calibration values for a second setting of the printing device after receiving the first feedback input;

iteratively setting the second setting of the printing device according to each of the second calibration values, where the printing device, after each iteration, prints a corresponding sample image according to the second setting;

receiving a second feedback input that identifies one of the second calibration values as preferred for the second setting;

receiving a media identifier that uniquely identifies the first printing medium; and

compiling a data file in a memory that includes the first and second feedback inputs and the media identifier, where the media identifier indicates that the first and second feedback inputs correspond to the first printing medium.

38. (Canceled)

39. (Original) The method of claim 37, wherein  
all the sample images are derived from a single electronic image file.

40. (Original) The method of claim 37, further comprising:  
printing, along with each sample image, an indicium corresponding to the first calibration  
value of the first setting in use while printing the sample image.

41. (Original) The method of claim 37, wherein  
the first setting is a temperature of a fuser.

42. (Original) The method of claim 37, wherein  
the first setting is a print speed.

43. (Original) The method of claim 37, wherein  
the first setting is a set of color curves.

44. (Original) The method of claim 37, wherein  
the first setting is a set of gamma curves.

45. (Original) The method of claim 37, wherein  
the first setting is a set of white point data.

46. (Original) The method of claim 37, wherein  
the first calibration values are preset for the first setting.

47. (Currently Amended) The method of claim 37, further comprising:  
receiving at least one trigger value regarding the first setting,

wherein the first calibration values are derived from the trigger value, where the derivation includes incrementing the trigger value by at least a preset or user-defined increment value.

48. (Canceled)

49. (Canceled)

50. (Currently Amended) The method of claim 47 49, wherein the first calibration values are derived from an increment and the initial value.

51. (Currently Amended) The method of claim 47 49, wherein the increment has a preset value.

52. (Currently Amended) The method of claim 47 49, further comprising: setting a value for the increment.

53. (Original) The method of claim 37, further comprising: store a preferred one of the first calibration values in a memory.

54. (Original) The method of claim 53, further comprising: storing in the memory an identifier for the printing medium that the sample images are printed on.

55. (Original) The method of claim 54, further comprising: scanning a bar code to read the identifier.

56. (Previously presented) A method comprising: selecting a first setting of a printing device for calibration with a printing medium; feeding a plurality of sheets of the printing medium to the printing device for printing a plurality of sample images;

visually inspecting the sample images corresponding to the first setting to select one of them as the preferred one;

entering in a memory a first feedback input to indicate the preferred sample image;

selecting a second setting of the printing device for calibration with the printing medium after the entering of the first feedback input in the memory, where the printing device prints a plurality of sample images according to the selection of the second setting;

visually inspecting the sample images corresponding to the second setting to select one of them as the preferred sample image;

entering in the memory a second feedback input to indicate the preferred sample image; and

storing a media identifier that uniquely identifies the printer medium in the memory, where the media identifier indicates that the first and second feedback inputs correspond to the printing medium.

57. (Previously Presented) The method of claim 56, wherein

each one of the sample images includes an indicium, and

the first and second feedback inputs identify the indicium.

58. (Original) The method of claim 56, wherein

the first setting is a temperature of a fuser.

59. (Original) The method of claim 56, wherein

the first setting is a print speed.

60. (Original) The method of claim 56, wherein

the first setting is a set of color curves.

61. (Original) The method of claim 56, wherein

the first setting is a set of gamma curves.

62. (Original) The method of claim 56, wherein

the first setting is a set of white point data.

63. (Previously presented) The printing system of claim 1 where the controller characterizes printing media having different colors or transparencies.

64. (Previously presented) The printing system of claim 1 where the controller receives the trigger value from the interface; and where the trigger value is one of the first calibration values.

65. (New) The printing system of claim 1 where the controller is adapted to receive a sample value from the interface, where the sample value to identify a number of first calibration values to be derived by the controller.

66. (New) The printing system of claim 65 where the sample value identifies a maximum first calibration value, where the controller to cease incrementing the trigger value when one of the derived first calibration values is greater than or equal to the maximum first calibration value.